

Protective clothing — Protection against heat and flame — Limited flame spread materials, material assemblies and clothing (ISO 14116:2008)

ICS 13.340.10,

National foreword

This British Standard is the UK implementation of EN ISO 14116:2008. It supersedes BS EN 533:1997 and which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PH/3/2, Clothing for protection against heat and flame.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

Date	Comments

English Version

Protective clothing - Protection against heat and flame - Limited
flame spread materials, material assemblies and clothing (ISO
14116:2008)

Vêtements de protection - Protection contre la chaleur et la
flamme - Matériaux, assemblages de matériaux et
vêtements à propagation de flamme limitée (ISO
14116:2008)

Schutzkleidung - Schutz gegen Hitze und Flammen -
Materialien, Materialkombinationen und Kleidung mit
begrenzter Flammenausbreitung (ISO 14116:2008)

This European Standard was approved by CEN on 2 November 2007.

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Annex ZA (informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 89/686/EEC.

Once this standard is cited in the Official Journal of the European Communities under that Directive and has been implemented as a national standard in at least one Member State, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this International Standard and Directive 89/686/EEC

Clause(s)/sub-clause(s) of this International Standard	Essential requirements (ERs) of EU Directive 89/686/EEC, Annex II	Qualifying remarks/Notes
4.1, 4.4, 4.5, 4.6	1.2.1 Absence of risks and other inherent nuisance factors	
5.2.2	1.4 Information supplied by the manufacturer	
5.2.3	2.4 PPE subject to ageing	
5.2.4	1.4 Information supplied by the manufacturer	
5.2.5	1.4 Information supplied by the manufacturer	
6.1	3.6.1 PPE constituent materials and other components	
6.2	1.3.2 Lightness and design strength	
7	1.1.2.2 Classes of protection appropriate to different levels of risk	
8.3	1.4 Information supplied by the manufacturer	
8.3	2.12 PPE bearing identification marks related to health and safety	
9	1.4 Information supplied by the manufacturer	

WARNING — Other requirements and other EU Directives may be applicable to the products falling within the scope of this International Standard.

Protective clothing — Protection against heat and flame — Limited flame spread materials, material assemblies and clothing

1 Scope

This International Standard specifies the performance requirements for the limited flame spread properties of materials, material assemblies and protective clothing in order to reduce the possibility of the clothing burning and thereby itself constituting a hazard. Additional requirements for clothing are also specified.

Protective clothing complying with this International Standard is intended to protect workers against occasional and brief contact with small igniting flames, in circumstances where there is no significant heat hazard and without the presence of another type of heat. When protection against heat hazards is necessary in addition to protection against limited spread flammability, then standards, such as ISO 11612, are more appropriate.

A classification system is given for materials, material assemblies and garments which are tested according to ISO 15025:2000, Procedure A.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 13934-1:1999, *Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method*

ISO 13935-2:1999, *Textiles — Seam tensile properties of fabrics and made-up textile articles — Part 2: Determination of maximum force to seam rupture using the grab method*

ISO 13937-2:2000, *Textiles — Tear properties of fabrics — Part 2: Determination of tear force of trouser-shaped test specimens (Single tear method)*

ISO 15025:2000, *Protective clothing — Protection against heat and flame — Method of test for limited flame spread*

EN 340:2003, *Protective clothing — General requirements*